## SEQUENCE LISTING

```
<110> Donoho, Gregroy
      Hilbun, Erin
      Turner, Alex
      Friedrich, Glenn
      Zambrowicz, Brian
      Sands, Arthur T.
<120> Novel Human Kinase Protein and
  Polynucleotides Encoding the Same
<130> LEX-0119-USA
<150> US 60/176,690
<151> 2000-01-18
<160> 3
<170> FastSEQ for Windows Version 4.0
<210>1
<211> 1269
<212> DNA
<213> Homo sapiens
<400> 1
                                                                        60
atggaccatc ctagtaggga aaaggatgaa agacaacgga caactaaacc catggcacaa
                                                                       120
aggagtgcac actgctctcg accatctggc tcctcatcgt cctctggggt tcttatggtg
ggacccaact tcagggttgg caagaagata ggatgtggga acttcggaga gctcagatta
                                                                       180
ggtaaaaatc tctacaccaa tgaatatgta gcaatcaaac tggaaccaat aaaatcacgt
                                                                       240
                                                                       300
gctccacagc ttcatttaga gtacagattt tataaacagc ttggcagtgc aggtgaaggt
                                                                       360
ctcccacagg tgtattactt tggaccatgt gggaaatata atgccatggt gctggagctc
                                                                       420
cttggcccta gcttggagga cttgtttgac ctctgtgacc gaacatttac tttgaagacg
                                                                       480
gtgttaatga tagccatcca gctgctttct cgaatggaat acgtgcactc aaagaacctc
atttaccgag atgtcaagcc agagaacttc ctgattggtc gacaaggcaa taagaaagag
                                                                       540
catgttatac acattataga ctttggactg gccaaggaat acattgaccc cgaaaccaaa
                                                                       600
                                                                       660
aaacacatac cttataggga acacaaaagt ttaactggaa ctgcaagata tatgtctatc
                                                                       720
aacacgcatc ttggcaaaga gcaaagccgg agagatgatt tggaagccct aggccatatg
                                                                       780
ttcatgtatt tccttcgagg cagcctcccc tggcaaggac tcaaggctga cacattaaaa
                                                                       840
gagagatatc aaaaaattgg tgacaccaaa aggaatactc ccattgaagc tctctgtgag
                                                                       900
aactttccag aggagatggc aacctacctt cgatatgtca ggcgactgga cttctttgaa
                                                                       960
aaacctgatt atgagtattt acggaccctc ttcacagacc tctttgaaaa gaaaggctac
acctttgact atgcctatga ttgggttggg agacctattc ctactccagt agggtcagtt
                                                                      1020
                                                                      1080
cacgtagatt ctggtgcatc tgcaataact cgagaaagcc acacacatag ggatcggcca
tcacaacagc agcctcttcg aaatcaggtg gttagctcaa ccaatggaga gctgaatgtt
                                                                      1140
gatgatccca cgggagccca ctccaatgca ccaatcacag ctcatgccga ggtggaggta
                                                                      1200
gtggaggaag ctaagtgctg ctgtttcttt aagaggaaaa ggaagaagac tgctcagcgc
                                                                      1260
                                                                      1269
cacaagtga
<210> 2
<211> 422
```

<212> PRT

<213> Homo sapiens

```
<400> 2
Met Asp His Pro Ser Arg Glu Lys Asp Glu Arg Gln Arg Thr Thr Lys
Pro Met Ala Gln Arg Ser Ala His Cys Ser Arg Pro Ser Gly Ser Ser
                                25
Ser Ser Ser Gly Val Leu Met Val Gly Pro Asn Phe Arg Val Gly Lys
Lys Ile Gly Cys Gly Asn Phe Gly Glu Leu Arg Leu Gly Lys Asn Leu
                                            60
Tyr Thr Asn Glu Tyr Val Ala Ile Lys Leu Glu Pro Ile Lys Ser Arg
                   70
                                        75
Ala Pro Gln Leu His Leu Glu Tyr Arg Phe Tyr Lys Gln Leu Gly Ser
                                    90
Ala Gly Glu Gly Leu Pro Gln Val Tyr Tyr Phe Gly Pro Cys Gly Lys
                               105
           100
Tyr Asn Ala Met Val Leu Glu Leu Gly Pro Ser Leu Glu Asp Leu
                           120
Phe Asp Leu Cys Asp Arg Thr Phe Thr Leu Lys Thr Val Leu Met Ile
                       135
                                           140
Ala Ile Gln Leu Leu Ser Arg Met Glu Tyr Val His Ser Lys Asn Leu
                   150
                                       155
Ile Tyr Arg Asp Val Lys Pro Glu Asn Phe Leu Ile Gly Arg Gln Gly
                                    170
               165
Asn Lys Lys Glu His Val Ile His Ile Ile Asp Phe Gly Leu Ala Lys
                               185
Glu Tyr Ile Asp Pro Glu Thr Lys Lys His Ile Pro Tyr Arg Glu His
                           200
                                               205
Lys Ser Leu Thr Gly Thr Ala Arg Tyr Met Ser Ile Asn Thr His Leu
                                           220
                       215
Gly Lys Glu Gln Ser Arg Arg Asp Asp Leu Glu Ala Leu Gly His Met
                                       235
                   230
Phe Met Tyr Phe Leu Arg Gly Ser Leu Pro Trp Gln Gly Leu Lys Ala
                                   250
               245
Asp Thr Leu Lys Glu Arg Tyr Gln Lys Ile Gly Asp Thr Lys Arg Asn
                               265
Thr Pro Ile Glu Ala Leu Cys Glu Asn Phe Pro Glu Glu Met Ala Thr
                           280
Tyr Leu Arg Tyr Val Arg Arg Leu Asp Phe Phe Glu Lys Pro Asp Tyr
                                           300
                       295
Glu Tyr Leu Arg Thr Leu Phe Thr Asp Leu Phe Glu Lys Lys Gly Tyr
                   310
                                       315
Thr Phe Asp Tyr Ala Tyr Asp Trp Val Gly Arg Pro Ile Pro Thr Pro
                                   330
                                                        335
               325
Val Gly Ser Val His Val Asp Ser Gly Ala Ser Ala Ile Thr Arg Glu
                               345
Ser His Thr His Arg Asp Arg Pro Ser Gln Gln Pro Leu Arg Asn
                                               365
                           360
Gln Val Val Ser Ser Thr Asn Gly Glu Leu Asn Val Asp Asp Pro Thr
                                           380
                       375
Gly Ala His Ser Asn Ala Pro Ile Thr Ala His Ala Glu Val Glu Val
                                       395
                   390
Val Glu Glu Ala Lys Cys Cys Cys Phe Phe Lys Arg Lys Arg Lys
                                   410
Thr Ala Gln Arg His Lys
           420
```

```
<210> 3
<211> 1968
<212> DNA
<213> Homo sapiens
```

<400> 3 60 atactgaage tacttgctgt actataggag agetetgtee tgtaggatea tggaecatee 120 tagtagggaa aaggatgaaa gacaacggac aactaaaccc atggcacaaa ggagtgcaca 180 ctgctctcga ccatctggct cctcatcgtc ctctggggtt cttatggtgg gacccaactt 240 cagggttggc aagaagatag gatgtgggaa cttcggagag ctcagattag gtaaaaatct 300 ctacaccaat gaatatgtag caatcaaact ggaaccaata aaatcacgtg ctccacagct 360 tcatttagag tacagatttt ataaacagct tggcagtgca ggtgaaggtc tcccacaggt 420 gtattacttt ggaccatgtg ggaaatataa tgccatggtg ctggagctcc ttggccctag cttggaggac ttgtttgacc tctgtgaccg aacatttact ttgaagacgg tgttaatgat 480 540 agccatccag ctgctttctc gaatggaata cgtgcactca aagaacctca tttaccgaga 600 tgtcaagcca gagaacttcc tgattggtcg acaaggcaat aagaaagagc atgttataca cattatagac tttggactgg ccaaggaata cattgacccc gaaaccaaaa aacacatacc 660 720 ttatagggaa cacaaaagtt taactggaac tgcaagatat atgtctatca acacgcatct 780 tggcaaagag caaagccgga gagatgattt ggaagcccta ggccatatgt tcatgtattt 840 ccttcgaggc agcctcccct ggcaaggact caaggctgac acattaaaag agagatatca aaaaattggt gacaccaaaa ggaatactcc cattgaagct ctctgtgaga actttccaga 900 960 ggagatggca acctaccttc gatatgtcag gcgactggac ttctttgaaa aacctgatta tgagtattta cggaccctct tcacagacct ctttgaaaag aaaggctaca cctttgacta 1020 tgcctatgat tgggttggga gacctattcc tactccagta gggtcagttc acgtagattc 1080 1140 tggtgcatct gcaataactc gagaaagcca cacacatagg gatcggccat cacaacagca 1200 gcctcttcga aatcaggtgg ttagctcaac caatggagag ctgaatgttg atgatcccac gggagcccac tccaatgcac caatcacagc tcatgccgag gtggaggtag tggaggaagc 1260 taagtgctgc tgtttcttta agaggaaaag gaagaagact gctcagcgcc acaagtgacc 1320 agtgcctccc aggagtcctc aggccctggg gactctgact caattgtacc tgcagctcct 1380 gccatttctc attggaaggg actcctcttt gggggagggt ggatatccaa accaaaaaga 1440 agaaaacaga tgcccccaga aggggccagt gcgggcagcc agggcctagt gggtcattgg 1500 1560 ccatctccgc ctgcctaagg ctctgagcag gtcccagagc tgctgttcct ccactgcttg 1620 cccatagggc tgcctggttg actctccttc ccattgttta cagtgaaggt gtcattcaca aaaactcaag gactgctatt ctccttcttc cccttagttt actcctggtt tttaccccac 1680 cctcaaccct ctccagcata aaacctagtg agctaaaggc tttgtctgca gaaggagatc 1740 aagaggcttg ggggtaaggc caagaaggta ggaggaaaat ggcagacctg ggctggagaa 1800 1860 gaacettete egtateeeag gtgtgeetgg eagtatggtt teetetteet etgtgeetgt gcagcattca tcccagctgg cccttggagt tcaggttcct tcttccctcc ctcctgtgaa 1920 1968 gttacactgt aggacacaag ctgtgagcaa tctgcagtct actggccc